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**MULTIPLICATION SYSTEM FOR VIRTUAL PATH CONNECTION GROUP****Pub. No.:** 10-215253 [JP 10215253 A ]**Published:** August 11, 1998 (19980811)**Inventor:** TAKAGI KAZUO**Applicant:** NEC CORP [000423] (A Japanese Company or Corporation), JP (Japan)**Application No.:** 09-016585 [JP 9716585]**Filed:** January 30, 1997 (19970130)**INTL CLASS:** International Class: 6 ] H04L-012/28; H04Q-003/00**JAPIO Class:** 44.3 (COMMUNICATION -- Telegraphy); 44.4 (COMMUNICATION -- Telephone)**ABSTRACT**

**PROBLEM TO BE SOLVED:** To improve the band use efficiency and line quality of virtual path connections(VPC) even if traffic is small and its variation is large by multiplexing VPCs by quality classes and a common VPC on the same path in an asynchronous transfer mode(ATM) network and making the bandwidth that the VPCs by the quality classes and the common VPC have mutually flexible.

**SOLUTION:** The VPCs in the traffic/quality classes on the same path from a start terminal 230 to an end terminal 231 are accommodated respectively and the VPCs 210 to 213 by the quality classes which have the lowest guarantee bandwidth and the highest allowable bandwidth and the common VPC 214 are multiplexed. When the bandwidth of the VPCs 210 to 213 by the quality classes is deficient, part of the remaining bandwidth of the common VPC 214 is added to the bandwidth of the VPCs 210 to 213 by the classes to compensate the deficient part. When the bandwidth for which the common VPC 214 has fulfilled becomes surplus, the surplus bandwidth is returned to the common VPC 214.

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